IN THE CLAIMS:

Cancel claims 1 to 9, without prejudice.

1. to 9. (Canceled)

10. (New) A method for determining a position of an end head used in rolls of packing paper, cellulose, or board relative to a grab transporting the end head, when the end head is attached to the grab, comprising:

transporting a detector along a circular curve assumed to be intersected by a circular curve defined by an edge of an end head;

measuring an angle position of the detector on the circular curve of its transport path;

detecting intersection points between the circular curve traveled by the detector and the edge of the end head;

calculating a position of a center point of the end head on the basis of:

- a) a radius of the circular curve traveled by the detector and the position of the center point of the circular curve traveled by the detector,
- b) a position of a tool point of the grab,
- c) an assumed radius of the end head, and
- d) positions of the detected intersection points; and

calculating a position of the center point of the end head in the set of coordinates of the grab.

- 11. (New) The method of claim 10, wherein the detector is transported at the first end of a measuring arm fitted to a rotation shaft of the grab, and the angle of rotation of the measuring arm on the shaft is measured.
- 12. (New) The method of claim 11, wherein the measurement of the angle of rotation of the measuring arm is calibrated by rotating the measuring arm towards a face at a predefined rotation-angle position until the face is detected and measurement of the angle of the measuring arm is set on the basis of this angle at which the face is detected.

- 13. (New) The method of claim 11, wherein a length of the measuring arm is calibrated with the aid of a calibrating end head, the radius of which is known and which is set in a predefined position on the grab.
- 14. (New) The method of claim 11, wherein the length of the measuring arm is calibrated with the aid of a calibration face formed in the grab, at the position of which a measurement result corresponding to the calibrating end head is obtained.
- 15. (New) An apparatus for determining a position of an end head used in rolls of packing paper, cellulose, or board relative to a grab transporting the end head, when the end head is attached to the grab, comprising:
 - a grab comprising a body, elements for gripping an end head, and a predefined tool point; a measuring arm rotatable on a rotation shaft fitted to the body;
- a measuring device, operable for determining an angle of rotation of the measuring arm around the rotation shaft; and
- a detector attached to the measuring arm, operable for detecting passage of an edge of the end head over the detector.
- 16. (New) The apparatus of claim 15, wherein the rotation shaft of the measuring arm is disposed a distance from the tool point.
- 17. (New) The apparatus of claim 15, wherein the grab has a first calibration face parallel to the shaft of the measuring arm and to a predefined angle position on the circumferential path of the measuring arm.
- 18. (New) The apparatus of claim 16, wherein the grab has a first calibration face parallel to the shaft of the measuring arm and to a predefined angle position on the circumferential path of the measuring arm.

- 19. (New) The apparatus of claim 15, wherein the grab has a first calibration face arranged on the circumferential path of the measuring arm in such a way that detection corresponding to the edge of the end head is obtained at its position.
- 20. (New) The apparatus of claim 16, wherein the grab has a first calibration face arranged on the circumferential path of the measuring arm in such a way that detection corresponding to the edge of the end head is obtained at its position.
- 21. (New) The apparatus of claim 17, wherein the grab has a second calibration face arranged on the circumferential path of the measuring arm in such a way that detection corresponding to the edge of the end head is obtained at its position.
- 22. (New) The apparatus of claim 18, wherein the grab has a second calibration face, arranged on the circumferential path of the measuring arm in such a way that detection corresponding to the edge of the end head is obtained at its position.